

Standard Cost Categories for Capital Projects

(Rev.12, July 31, 2009)

10 GUIDEWAY & TRACK ELEMENTS (route miles)

- 10.01 Guideway: At-grade exclusive right-of-way
- 10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)
- 10.03 Guideway: At-grade in mixed traffic
- 10.04 Guideway: Aerial structure
- 10.05 Guideway: Built-up fill
- 10.06 Guideway: Underground cut & cover
- 10.07 Guideway: Underground tunnel
- 10.08 Guideway: Retained cut or fill
- 10.09 Track: Direct fixation
- 10.10 Track: Embedded
- 10.11 Track: Ballasted
- 10.12 Track: Special (switches, turnouts)
- 10.13 Track: Vibration and noise dampening

20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)

- 20.01 At-grade station, stop, shelter, mall, terminal, platform
- 20.02 Aerial station, stop, shelter, mall, terminal, platform
- 20.03 Underground station, stop, shelter, mall, terminal, platform
- 20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.
- 20.05 Joint development
- 20.06 Automobile parking multi-story structure
- 20.07 Elevators, escalators

30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS

- 30.01 Administration Building: Office, sales, storage, revenue counting
- 30.02 Light Maintenance Facility
- 30.03 Heavy Maintenance Facility
- 30.04 Storage or Maintenance of Way Building
- 30.05 Yard and Yard Track

40 SITEWORK & SPECIAL CONDITIONS

- 40.01 Demolition, Clearing, Earthwork
- 40.02 Site Utilities, Utility Relocation
- 40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments
- 40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks
- 40.05 Site structures including retaining walls, sound walls
- 40.06 Pedestrian / bike access and accommodation, landscaping
- 40.07 Automobile, bus, van accessways including roads, parking lots
- 40.08 Temporary Facilities and other indirect costs during construction

50 SYSTEMS

- 50.01 Train control and signals
- 50.02 Traffic signals and crossing protection
- 50.03 Traction power supply: substations
- 50.04 Traction power distribution: catenary and third rail
- 50.05 Communications
- 50.06 Fare collection system and equipment
- 50.07 Central Control

60 ROW, LAND, EXISTING IMPROVEMENTS
60.01 Purchase or lease of real estate
60.02 Relocation of existing households and businesses
70 VEHICLES (number)
70.01 Light Rail
70.02 Heavy Rail
70.03 Commuter Rail
70.04 Bus
70.05 Other
70.06 Non-revenue vehicles
70.07 Spare parts
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)
80.01 Preliminary Engineering
80.02 Final Design
80.03 Project Management for Design and Construction
80.04 Construction Administration & Management
80.05 Professional Liability and other Non-Construction Insurance
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.
80.07 Surveys, Testing, Investigation, Inspection
80.08 Start up
90 UNALLOCATED CONTINGENCY
100 FINANCE CHARGES

Standard Cost Categories for Capital Projects DEFINITIONS		NOTE: The SCC cost breakdown is based on a traditional Design Bid Build model. If your project is Design Build, to the best of your ability, separate construction costs from design, administration, testing, etc. Put all construction costs in 10 through 50. Put design, administration, testing, etc. in <i>80 Professional Services</i> .
(Rev.12, July 31, 2009)		
10 GUIDEWAY & TRACK ELEMENTS (route miles)		<p>Include guideway and track costs for all transit modes (Heavy rail, light rail, commuter rail, BRT, rapid bus, bus, monorail, cable car, etc.) The unit of measure is route miles of guideway, regardless of width. As associated with the guideway, include costs for rough grading, excavation, and concrete base for guideway where applicable. Include all construction materials and labor regardless of whom is performing the work.</p> <p>In your written description of the scope and in supporting graphic diagrams, indicate whether busway or rail track is single, double, triple, relocated, etc. Put guideway and track elements associated with yards in <i>30 Support Facilities</i> below.</p>
10.01	Guideway: At-grade exclusive right-of-way	
10.02	Guideway: At-grade semi-exclusive (allows cross-traffic)	
10.03	Guideway: At-grade in mixed traffic	
10.04	Guideway: Aerial structure	Include foundation excavation; guideway structures including caissons, columns, bridges, viaducts, cross-overs, fly-overs.
10.05	Guideway: Built-up fill	Include construction of earthen berms.
10.06	Guideway: Underground cut & cover	Include excavation, retaining walls, backfill, underground guideway structure and finishes.
10.07	Guideway: Underground tunnel	Include tunneling by means of a tunnel boring machine, drill blasting, mining, and immersed tube tunneling; tunnel structure and finishes.
10.08	Guideway: Retained cut or fill	Include excavation, retaining walls, backfill, underground guideway structure and finishes.
10.09	Track: Direct fixation	Include rails, connectors.
10.10	Track: Embedded	Include rails, ties; ballast where applicable
10.11	Track: Ballasted	Include rails, ties and ballast.
10.12	Track: Special (switches, turnouts)	Include transitional curves.
10.13	Track: Vibration and noise dampening	Include upcharge for vib/noise dampening to any track condition above.
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)		As associated with stations, include costs for rough grading, excavation, station structures, enclosures, finishes, equipment; mechanical and electrical components including HVAC, ventilation shafts and equipment, station power, lighting, public address/customer information system, safety systems such as fire detection and prevention, security surveillance, access control, life safety systems, etc. Include all construction materials and labor regardless of whom is performing the work.
		Put guideway and track associated with stations in <i>10 Guideway & Track Elements</i> above.
20.01	At-grade station, stop, shelter, mall, terminal, platform	
20.02	Aerial station, stop, shelter, mall, terminal, platform	Include station structures including caissons, columns, platforms, superstructures, etc.
20.03	Underground station, stop, shelter, mall, terminal, platform	Include retaining walls, backfill, structure.
20.04	Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	
20.05	Joint development	Per FTA's Joint Development Guidance, "Joint development is any income-producing activity with a transit nexus related to a real estate asset in which FTA has an interest. . . Joint development projects are commercial, residential, industrial, or mixed-use developments that are induced by or enhance the effectiveness of transit projects. . ." See http://www.fta.dot.gov/17973_18027_ENG_HTML.htm
20.06	Automobile parking multi-story structure	Include retaining walls, backfill, structure.
20.07	Elevators, escalators	
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS		As associated with support facilities, include costs for rough grading, excavation, support structures, enclosures, finishes, equipment; mechanical and electrical components including HVAC, ventilation shafts and equipment, facility power, lighting, public address system, safety systems such as fire detection and prevention, security surveillance, access control, life safety systems, etc. Include fueling stations. Include all construction materials and labor regardless of whom is performing the work.
		Where a support facility shares the structure with a station, its cost may be included with station cost. Identify this with a note.
		Except for guideway and track associated with a yard, include all guideway and track costs associated with support facilities in <i>10 Guideway & Track Elements</i> above.
30.01	Administration Building: Office, sales, storage, revenue counting	
30.02	Light Maintenance Facility	Include service, inspection, and storage facilities and equipment.
30.03	Heavy Maintenance Facility	Include heavy maintenance and overhaul facilities and equipment.
30.04	Storage or Maintenance of Way Building	
30.05	Yard and Yard Track	Include yard construction, guideway and track associated with yard.

40 SITEWORK & SPECIAL CONDITIONS		Include all construction materials and labor regardless of whom is performing the work.
40.01	Demolition, Clearing, Earthwork	Include project-wide clearing, demolition and fine grading.
40.02	Site Utilities, Utility Relocation	Include all site utilities - storm, sewer, water, gas, electric.
40.03	Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	Include underground storage tanks, fuel tanks, other hazardous materials and treatments, etc.
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks	Include other environmental mitigation not listed.
40.05	Site structures including retaining walls, sound walls	
40.06	Pedestrian / bike access and accommodation, landscaping	Include sidewalks, paths, plazas, landscape, site and station furniture, site lighting, signage, public artwork, bike facilities, permanent fencing.
40.07	Automobile, bus, van accessways including roads, parking lots	Include all on-grade paving.
40.08	Temporary Facilities and other indirect costs during construction	As a general rule and to the extent possible, appropriately allocate indirect costs among the construction costs in Categories 10 through 50. Where that is not possible, include in <i>40.08 Temporary Facilities</i> costs for mobilization, demobilization, phasing; time and temporary construction associated with weather (heat, rain, freezing, etc.); temporary power and facilities; temporary construction, easements, and barriers for storm water pollution prevention, temporary access and to mitigate construction impacts; project and construction supervision; general conditions, overhead, profit. NOTE: Include contractor's general liability and other insurance related to construction such as builder's risk in Cats. 10 - 50, not in 80 Professional Services below.
50 SYSTEMS		Include all construction materials and labor regardless of whom is performing the work.
50.01	Train control and signals	
50.02	Traffic signals and crossing protection	Include signal prioritization at intersections.
50.03	Traction power supply: substations	
50.04	Traction power distribution: catenary and third rail	
50.05	Communications	Include passenger information systems at stations and on vehicles (real time travel information; static maps and schedules). Include equipment to allow communications among vehicles and with central control.
50.06	Fare collection system and equipment	Include fare sales and swipe machines, fare counting equipment.
50.07	Central Control	
Construction Subtotal (10 - 50)		

60 ROW, LAND, EXISTING IMPROVEMENTS		Include professional services associated with the real estate component of the project. These costs may include agency staff oversight and administration, real estate and relocation consultants, legal counsel, court expenses, insurance, etc.
60.01	Purchase or lease of real estate	If the value of right-of-way, land, and existing improvements is to be used as local match to the Federal funding of the project, include the total cost on this line item. In backup documentation, separate cost for land from cost for improvements. Identify whether items are leased, purchased or acquired through payment or for free. Include the costs for permanent surface and subsurface easements, trackage rights, etc.
60.02	Relocation of existing households and businesses	In compliance with Uniform Relocation Act.
70 VEHICLES (number)		Include professional services associated with the vehicle component of the project. These costs may include agency staff oversight and administration, vehicle consultants, design and manufacturing contractors, legal counsel, warranty and insurance costs, etc.
70.01	Light Rail	Include light rail and streetcar rail using electric, diesel or other power supply.
70.02	Heavy Rail	
70.03	Commuter Rail	Include locomotives (diesel, electric, or other), trailer cars, self-propelled multiple units (EMU electric or DMU diesel, or other power supply)
70.04	Bus	Includes "rubber-tired" buses and trolleys including new, used, historic replica, articulated, using electric, diesel, dual-power, or other power supply.
70.05	Other	Include Vans, Sedan/Station Wagon, Cable Car, People Mover, Monorail, Car/Inclined Railway, Ferry Boat, Transferred Vehicle
70.06	Non-revenue vehicles	
70.07	Spare parts	
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		Cat. 80 applies to Cats. 10-50. Cat. 80 includes all professional, technical and management services related to the design and construction of fixed infrastructure (Cats. 10 - 50) during the preliminary engineering, final design, and construction phases of the project. This includes environmental work, design, engineering and architectural services; specialty services such as safety or security analyses; value engineering, risk assessment, cost estimating, scheduling, Before and After studies, ridership modeling and analyses, auditing, legal services, administration and management, etc. by agency staff or outside consultants.
80.01	Preliminary Engineering	<p>Include professional liability insurance and other non-construction insurance on 80.05 unless insurance for the agency and its consultants is already included in other lines.</p> <p>Include costs associated with professional services related to real estate and vehicles in Cats. 60 and 70.</p> <p><i>(Note that costs for alternatives analysis and NEPA work done before FTA approval to enter preliminary engineering (PE), regardless of funding source, are not included in an FFGA and therefore, should not be included in the Standard Cost Category worksheets. For example, on one and the same grant, costs incurred prior to FTA approval to enter PE should be omitted from these worksheets whereas costs incurred after FTA approval to enter PE should be included.)</i></p>
80.02	Final Design	
80.03	Project Management for Design and Construction	
80.04	Construction Administration & Management	
80.05	Professional Liability and other Non-Construction Insurance	
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	
80.07	Surveys, Testing, Investigation, Inspection	
80.08	Start up	
Subtotal (10 - 80)		
90 UNALLOCATED CONTINGENCY		Includes unallocated contingency, project reserves. Document allocated contingencies for individual line items on the Main worksheets.
Subtotal (10 - 90)		
100 FINANCE CHARGES		<p>Include finance charges expected to be paid by the project sponsor/grantee prior to either the completion of the project or the fulfillment of the New Starts funding commitment, whichever occurs later in time. Finance charges incurred after this date should not be included in Total Project Cost. (See FFGA Circular FTA C5200.1A Chapter III for additional information.)</p> <p>Derive finance charges from the New Starts project's financial plan, based on an analysis of the sources and uses of funds. The amount and type of debt financing required and revenues available determine the finance charges. By year, compute finance charges in year-of-expenditure (YOE) dollars. On the Inflation Calculation to YOE worksheet enter the finance charges for the appropriate years.</p>
Total Project Cost (10 - 100)		

14-Series TEAM Scope / Activity Line Items

Required for all grants that serve a Capital Project

(Rev.12, July 31, 2009)

1. HOW DO THE SCC AND TEAM RELATE?

TEAM is for grants management. Many grants can serve a capital project -- e.g. CMAQ, 5307, 5309, etc. The Standard Cost Categories (SCC) are for cost management, day to day as well as at important milestones.

To manage capital project costs use the SCC worksheets, back up sheets, detailed cost estimates, etc. At important milestones, "paperclip" the SCC worksheets to the applicable grants in TEAM.

TEAM and the SCC support each other but TEAM doesn't duplicate the level of information in the SCC. Grant budgets will have just the ten lines.

2. WHEN SHOULD I USE THE 14-SERIES?

Use it for capital projects. For New Starts project, use it from the very first grant that funds Preliminary Engineering, and include all grants issued through the FFGA; these grants may be small or large and may derive funding from diverse sources such as CMAQ, 5307, 5309 Fixed Guideway Mod, 5309 New Starts, Federal Non-Transportation funding from HUD, Defense, etc.

3. HOW IS THE 14-SERIES ORGANIZED AND WHY?

The 14-Series has one Scope and 10 ALIs. The organization is intentionally simple. Put guideway costs under the Guideway ALI, station costs under the Station ALI. If the costs are organized simply, the information will be consistent program-wide and will produce a reliable database. For Vehicles, use the 13-Series ALIs.

140-00 PROJECT NAME - (this is the one Scope)

14.01.10 GUIDEWAY & TRACK ELEMENTS

.01 Bus STD 40 FT

.02 Bus STD 35 FT

.03 Bus 30 FT

14.02.20 STATIONS, STOPS, TERMINALS, INTERMODAL

.04 Bus < 30 FT

.05 Bus School

.06 Bus Articulated

14.03.30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN BLDGS

.07 Bus Commuter / Suburban

.08 Bus Intercity

.09 Bus Trolley STD

14.04.40 SITework & SPECIAL CONDITIONS

Engineering & Design

.10 Bus Trolley Artic.

13.11.XX

.11 Bus Double Deck

.12 Bus Used

14.05.50 SYSTEMS

Purchase - Replacement

.13 Bus School Used

13.12.XX

.14 Bus Dual Mode

.15 Vans

14.06.60 ROW, LAND, EXISTING IMPROVEMENTS

Purchase - Expansion

.16 Sedan / Station Wagon

13.13.XX

.20 Light Rail Cars

.21 Heavy Rail Cars

13____ VEHICLES - use the 13-Series ALIs for vehicles.

Rehabilitation / Rebuild

.22 Commuter Rail Self Propelled Electric

13.14.XX

.23 Commuter Rail Car Trailer

.24 Commuter Rail Locomotive Diesel

14.08.80 PROFESSIONAL SERVICES

Mid Life Rebuild (Rail)

.25 Commuter Rail Locomotive Electric

13.15.XX

.26 Commuter Rail Cars Used

.27 Commuter Rail Locomotive Used

14.09.90 UNALLOCATED CONTINGENCY

Lease - Replacement

.28 Commuter Rail Self Propelled - Diesel

13.16.XX

.30 Cable Car

.31 People Mover

14.10.10 FINANCE CHARGES

Lease - Expansion

.32 Car, Incline Railway

13.18.XX

.33 Ferry Boats

.39 Transferred Vehicles

Vehicle Overhaul

.40 Spare Parts/Assoc.Capital

13.17.00

/ Maintenance Items

PROJECT DESCRIPTION - BUILD ALTERNATIVE

Insert Project Sponsor's Name here	Sarasota County Transportation Authority	Today's Date
Insert Project Name and Location	Sarasota, Florida	
Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Construction, Rev Ops)	PE	

Describe the project elements to explain the unit costs shown on the Main Worksheet. Example: A 20-mile new light rail project has its guideway entirely on g
Mention precedents and reference points used in the development of costs for this project. Mention other aspects of this project that were important consideration
schedule, etc.

10 GUIDEWAY & TRACK ELEMENTS (route miles)		
10.01 Guideway: At-grade exclusive right-of-way		
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	4 semi-exclusive bus lanes - 1) freight rail frontage University Ave to 10th Street 2.648 miles @ \$1'	
10.03 Guideway: At-grade in mixed traffic		
10.04 Guideway: Aerial structure		
10.05 Guideway: Built-up fill		
10.06 Guideway: Underground cut & cover		
10.07 Guideway: Underground tunnel		
10.08 Guideway: Retained cut or fill		
10.09 Track: Direct fixation		
10.10 Track: Embedded		
10.11 Track: Ballasted		
10.12 Track: Special (switches, turnouts)		
10.13 Track: Vibration and noise dampening		
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)		
20.01 At-grade station, stop, shelter, mall, terminal, platform	6 Level 1 Stations @ \$144,000 each - 23 Level 2 Stations @ \$326,400 each	
20.02 Aerial station, stop, shelter, mall, terminal, platform		
20.03 Underground station, stop, shelter, mall, terminal, platform		
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1 Park & Ride lot in the vicinity of USF / SRQ	
20.05 Joint development		
20.06 Automobile parking multi-story structure		
20.07 Elevators, escalators		
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS		
30.01 Administration Building: Office, sales, storage, revenue counting		
30.02 Light Maintenance Facility		
30.03 Heavy Maintenance Facility		
30.04 Storage or Maintenance of Way Building		
30.05 Yard and Yard Track		
40 SITEWORK & SPECIAL CONDITIONS		
40.01 Demolition, Clearing, Earthwork		
40.02 Site Utilities, Utility Relocation		
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments		
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks		
40.05 Site structures including retaining walls, sound walls		
40.06 Pedestrian / bike access and accommodation, landscaping		
40.07 Automobile, bus, van accessways including roads, parking lots		
40.08 Temporary Facilities and other indirect costs during construction		
50 SYSTEMS		
50.01 Train control and signals		
50.02 Traffic signals and crossing protection	3 Queue Jump lanes @ \$192,000, 26 standard Signal Priority @ \$25,000, 1 Signal Priority w/ traffic	
50.03 Traction power supply: substations		
50.04 Traction power distribution: catenary and third rail		
50.05 Communications		
50.06 Fare collection system and equipment		
50.07 Central Control		
Construction Subtotal (10 - 50)		
60 ROW, LAND, EXISTING IMPROVEMENTS		
60.01 Purchase or lease of real estate	6 Level 1 Stations @ \$50,000 each - 23 Level 2 Stations @ \$150,000 each, Railroad Corridor \$10,(
60.02 Relocation of existing households and businesses	Railroad Connector @ \$6,200,000.	
70 VEHICLES (number)		
70.01 Light Rail		
70.02 Heavy Rail		
70.03 Commuter Rail		
70.04 Bus	8 hybrid diesel/electric 50' Articulated @ \$550,000 each.	
70.05 Other		
70.06 Non-revenue vehicles		
70.07 Spare parts	Spare Vehicle parts @ \$500,000	
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		
80.01 Preliminary Engineering	\$2,514,950	
80.02 Final Design	\$2,514,950	
80.03 Project Management for Design and Construction	\$3,017,940	
80.04 Construction Administration & Management		
80.05 Professional Liability and other Non-Construction Insurance	\$1,005,980	
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		
80.07 Surveys, Testing, Investigation, Inspection		
80.08 Start up		
Subtotal (10 - 80)		
90 UNALLOCATED CONTINGENCY		
Subtotal (10 - 90)		
100 FINANCE CHARGES		
Total Project Cost (10 - 100)		

SCHEDULE

(Rev.12, July 31, 2009)

Insert Project Sponsor's Name here

Today's Date

2/18/10

Insert Project Name and Location

Yr of Base Year \$

2009

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, C

Yr of Revenue Ops

2013

Insert comments, notes, etc.

Start Date

End Date

Preliminary Engineering

01/15/10

01/15/11

Design

Develop cost estimate, schedule, ridership forecast

Conduct reviews

Develop FEIS, receive Record of Decision

Submit request / receive FTA approval to enter Final Design

Final Design

01/15/11

06/15/11

Develop the contract documents for the Build Alternative

Develop cost estimate, schedule

Acquire real estate; relocate households and businesses

Conduct reviews

Submit request / receive FTA approval for FFGA

Issue requests for bids, make awards of construction contracts

Construction

01/01/12

01/01/13

Construct fixed infrastructure

Finalize real estate acquisitions and relocations

Acquire and test vehicles

Revenue Ops / Closeout of Project

03/01/13

03/01/15

Revenue Operations

Before and After Study: Two years post Rev Ops

Fulfillment of the New Starts funding commitment

Completion of project close-out, resolution of claims

ANNUALIZED COST-BUILD ALTERNATIVE

(Rev.12, July 31, 2009)

Insert Project Sponsor's Name here

Today's Date **2/18/10**

Insert Project Name and Location

Yr of Base Year \$ 2009

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Cc

Yr of Revenue Ops 2013

	Quantity	Total Base Year Dollars (X000)	Cat. 80 Prof. Svc. spread proportionally over Cats. 10 - 50 (X000)	Spread Cat. 90 Unalloc. Cont. according to perceived risks (X000)	Revised Total Base Year Dollars (X000)	Years of Useful Life	Annualization Factor (based on 7% rate) [0.07/1 - (1.07)^- no. yrs]	Annualized Cost (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	4.45	24,982	5,733	0	30,715			2,475
10.01 Guideway: At-grade exclusive right-of-way	0.00	0	0	0	0	125	0.0700	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	4.45	24,982	5,733	0	30,715	30	0.0806	2,475
10.03 Guideway: At-grade in mixed traffic	0.00	0	0	0	0	20	0.0944	0
10.04 Guideway: Aerial structure	0.00	0	0	0	0	80	0.0703	0
10.05 Guideway: Built-up fill	0.00	0	0	0	0	80	0.0703	0
10.06 Guideway: Underground cut & cover	0.00	0	0	0	0	125	0.0700	0
10.07 Guideway: Underground tunnel	0.00	0	0	0	0	125	0.0700	0
10.08 Guideway: Retained cut or fill	0.00	0	0	0	0	125	0.0700	0
10.09 Track: Direct fixation	0	0	0	0	0	30	0.0806	0
10.10 Track: Embedded	0	0	0	0	0	20	0.0944	0
10.11 Track: Ballasted	0	0	0	0	0	35	0.0772	0
10.12 Track: Special (switches, turnouts)	0	0	0	0	0	30	0.0806	0
10.13 Track: Vibration and noise dampening	0	0	0	0	0	30	0.0806	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	12,182	2,796	0	14,978			1,058
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	10,882	2,497	0	13,379	70	0.0706	945
20.02 Aerial station, stop, shelter, mall, terminal, platform	0	0	0	0	0	70	0.0706	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0	0	0	0	0	125	0.0700	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,300	298	0	1,598	70	0.0706	113
20.05 Joint development	0	0	0	0	0	70	0.0706	0
20.06 Automobile parking multi-story structure	0	0	0	0	0	50	0.0725	0
20.07 Elevators, escalators	0	0	0	0	0	30	0.0806	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	0	0			0
30.01 Administration Building: Office, sales, storage, revenue counting	0	0	0	0	0	50	0.0725	0
30.02 Light Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.03 Heavy Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.04 Storage or Maintenance of Way Building	0	0	0	0	0	50	0.0725	0
30.05 Yard and Yard Track	0	0	0	0	0	80	0.0703	0
40 SITEWORK & SPECIAL CONDITIONS	0	0	0	0	0			0
40.01 Demolition, Clearing, Earthwork	0	0	0	0	0	125	0.0700	0
40.02 Site Utilities, Utility Relocation	0	0	0	0	0	125	0.0700	0
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	0	0	0	0	0	125	0.0700	0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0	0	0	0	0	125	0.0700	0
40.05 Site structures including retaining walls, sound walls	0	0	0	0	0	80	0.0703	0
40.06 Pedestrian / bike access and accommodation, landscaping	0	0	0	0	0	20	0.0944	0
40.07 Automobile, bus, van accessways including roads, parking lots	0	0	0	0	0	20	0.0944	0
40.08 Temporary Facilities and other indirect costs during construction	0	0	0	0	0	100	0.0701	0
50 SYSTEMS	2,289	525	0	2,814				227
50.01 Train control and signals	0	0	0	0	0	30	0.0806	0
50.02 Traffic signals and crossing protection	2,289	525	0	2,814	30	0.0806	227	
50.03 Traction power supply: substations	0	0	0	0	50	0.0725	0	
50.04 Traction power distribution: catenary and third rail	0	0	0	0	30	0.0806	0	
50.05 Communications	0	0	0	0	20	0.0944	0	
50.06 Fare collection system and equipment	0	0	0	0	25	0.0858	0	
50.07 Central Control	0	0	0	0	30	0.0806	0	
Construction Subtotal (10 - 50)		39,453	9,054	0	48,507			3,760
60 ROW, LAND, EXISTING IMPROVEMENTS		25,935		0	25,935			1,816
60.01 Purchase or lease of real estate		17,875			17,875	125	0.0700	1,252
60.02 Relocation of existing households and businesses		8,060			8,060	125	0.0700	564
70 VEHICLES (number)	9	4,900		0	4,900			617
70.01 Light Rail	0	0		0	0	25	0.0858	0
70.02 Heavy Rail	0	0		0	0	25	0.0858	0
70.03 Commuter Rail	0	0		0	0	25	0.0858	0
70.04 Bus	8	4,400		0	4,400	12	0.1259	554
70.05 Other	0	0		0	0	12	0.1259	0
70.06 Non-revenue vehicles	0	0		0	0	12	0.1259	0
70.07 Spare parts	1	500		0	500	12	0.1259	63
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		9,054						
80.01 Preliminary Engineering		2,515						
80.02 Final Design		2,515						
80.03 Project Management for Design and Construction		3,018						
80.04 Construction Administration & Management		0						
80.05 Professional Liability and other Non-Construction Insurance		1,006						
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		0						
80.07 Surveys, Testing, Investigation, Inspection		0						
80.08 Start up		0						
Subtotal (10 - 80)		79,342						
90 UNALLOCATED CONTINGENCY		0						
Subtotal (10 - 90)		79,342	9,054	0	79,342			6,192

FUNDING SOURCES BY CATEGORY

(Rev.12, July 31, 2009)

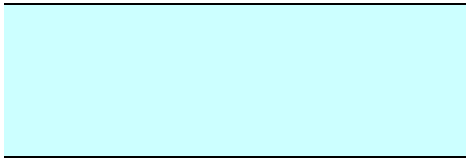
Insert Project Sponsor's Name here

Today's Date **2/18/10**

Insert Project Name and Location

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Construction, Rev Ops)

	Cost		Funding Summary			80%	20%						
	YOE Cost (X000)	Double-check Total	Federal 5309 New Starts Funds	Federal Other Funds	Local Funds	Federal 5309 Small Starts	Local	Federal Other	Local	Federal Other	Local	Federal Other	Local
10 GUIDEWAY & TRACK ELEMENTS (route miles)	26,575	26,575	21,260	0	5,315	21,260	5,315						
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	12,959	12,959	10,367	0	2,592	10,367	2,592						
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	0	0	0	0						
40 SITEWORK & SPECIAL CONDITIONS	0	0	0	0	0	0	0						
50 SYSTEMS	2,435	1,904	1,523	0	381	1,523	381						
60 ROW, LAND, EXISTING IMPROVEMENTS	27,253	27,253	21,802	0	5,451	21,802	5,451						
70 VEHICLES (number)	5,277	5,277	4,222	0	1,055	4,222	1,055						
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,399	9,328	7,462	0	1,866	7,462	1,866						
90 UNALLOCATED CONTINGENCY	0	0	0	0	0	0	0						
100 FINANCE CHARGES	0	0	0	0	0	0	0						
Total Project Cost (10 - 100)	83,898	83,296	66,636	0	16,660	66,636	16,660	0	0	0	0	0	0
Percentage of Total Project Cost	100%		79.4%	0.0%	19.9%	79.4%	19.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
			79.4%	19.9%									
			99.28%										



2009	2010	2011	2012	2013
2,263	11,181	32,187	38,267	0
1,798	8,930	25,523	30,385	
449	2,233	6,382	7,596	
2,247	11,163	31,905	37,981	0

MAIN WORKSHEET-BASELINE ALTERNATIVE

(Rev.12, July 31, 2009)

Insert Project Sponsor's Name here

Today's Date **2/18/10**

Insert Project Name and Location

Yr of Base Year \$ **2009**

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Cc)

Yr of Revenue Ops **2013**

	Quantity	Base Year Dollars w/o Contingency (X000)	Base Year Dollars Allocated Contingency (X000)	Base Year Dollars TOTAL (X000)	Base Year Dollars Unit Cost (X000)	Base Year Dollars Percentage of Construction Cost	Base Year Dollars Percentage of Total Project Cost	Baseline Alternative Cost Parameters (X000) see New Starts Reporting Instructions for additional info
10 GUIDEWAY & TRACK ELEMENTS (route miles)	1.50	1,171	351	1,522	\$ 1,015	12%	6%	
10.01 Guideway: At-grade exclusive right-of-way				0				
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)				0				1200/route mile
10.03 Guideway: At-grade in mixed traffic	1.50	1,171	351	1,522	\$ 1,015			
10.04 Guideway: Aerial structure				0				
10.05 Guideway: Built-up fill				0				
10.06 Guideway: Underground cut & cover				0				
10.07 Guideway: Underground tunnel				0				
10.08 Guideway: Retained cut or fill				0				
10.09 Track: Direct fixation				0				
10.10 Track: Embedded				0				
10.11 Track: Ballasted				0				
10.12 Track: Special (switches, turnouts)				0				
10.13 Track: Vibration and noise dampening				0				
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	5,176	1,553	6,729	\$ 224	54%	28%	
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	4,176	1,253	5,429	\$ 187			225/station
20.02 Aerial station, stop, shelter, mall, terminal, platform				0				
20.03 Underground station, stop, shelter, mall, terminal, platform				0				
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,000	300	1,300	\$ 1,300			
20.05 Joint development				0				
20.06 Automobile parking multi-story structure				0				
20.07 Elevators, escalators				0				
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	1.50	0	0	0	\$ -	0%	0%	
30.01 Administration Building: Office, sales, storage, revenue counting				0				
30.02 Light Maintenance Facility				0				
30.03 Heavy Maintenance Facility				0				
30.04 Storage or Maintenance of Way Building				0				
30.05 Yard and Yard Track				0				
40 SITEWORK & SPECIAL CONDITIONS	1.50	2,364	709	3,073	\$ 2,049	25%	13%	
40.01 Demolition, Clearing, Earthwork				0				
40.02 Site Utilities, Utility Relocation		1,310	393	1,703				
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments				0				
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks				0				
40.05 Site structures including retaining walls, sound walls				0				
40.06 Pedestrian / bike access and accommodation, landscaping				0				
40.07 Automobile, bus, van accessways including roads, parking lots		1,054	316	1,370				5.6/on-grade space
40.08 Temporary Facilities and other indirect costs during construction				0				
50 SYSTEMS	1.50	877	263	1,140	\$ 760	9%	5%	
50.01 Train control and signals				0				
50.02 Traffic signals and crossing protection		877	263	1,140				28/intersection
50.03 Traction power supply: substations				0				
50.04 Traction power distribution: catenary and third rail				0				
50.05 Communications				0				13.5/bus and 13.5/sign
50.06 Fare collection system and equipment				0				11.2/bus
50.07 Central Control				0				17 - 28 /bus
Construction Subtotal (10 - 50)	1.50	9,588	2,876	12,464	\$ 8,309	100%	52%	
60 ROW, LAND, EXISTING IMPROVEMENTS	1.50	1,950	585	2,535	\$ 1,690		10%	
60.01 Purchase or lease of real estate		1,950	585	2,535				
60.02 Relocation of existing households and businesses				0				
70 VEHICLES (number)	12	7,100	0	7,100	\$ 592		29%	
70.01 Light Rail				0				
70.02 Heavy Rail				0				
70.03 Commuter Rail				0				
70.04 Bus	12	6,600	0	6,600	\$ 550			500 conventional 750 articulated 1000 hybrid
70.05 Other				0				
70.06 Non-revenue vehicles				0				
70.07 Spare parts		500	0	500				
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	1.50	2,077	0	2,077	\$ 1,385	17%	9%	25-35% of Construction 10-50
80.01 Preliminary Engineering		577	0	577				
80.02 Final Design		577	0	577				
80.03 Project Management for Design and Construction		692	0	692				
80.04 Construction Administration & Management				0				
80.05 Professional Liability and other Non-Construction Insurance		231	0	231				
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.				0				
80.07 Surveys, Testing, Investigation, Inspection				0				
80.08 Start up				0				
Subtotal (10 - 80)	1.50	20,715	3,461	24,176	\$ 16,117		100%	
90 UNALLOCATED CONTINGENCY				0			0%	
Subtotal (10 - 90)	1.50			24,176	\$ 16,117		100%	
100 FINANCE CHARGES				NA				
Total Project Cost (10 - 100)	1.50			24,176	\$ 16,117		100%	
Total Base Year Cost per Mile Not Including Vehicles (X000)					\$11,384			
Allocated Contingency as % of Base Yr Dollars w/o Cont.				16.71%				
Unallocated Contingency as % of Base Yr Dollars w/o Contingency				0.00%				
Total Contingency as % of Base Yr Dollars w/o Contingency				16.71%				
Unallocated Contingency as % of Subtotal (10 - 80)				0.00%				

ANNUALIZED COST-BASELINE ALTERNATIVE

(Rev.12, July 31, 2009)

Insert Project Sponsor's Name here

Today's Date **2/18/10**

Insert Project Name and Location

Yr of Base Year \$ 2009

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Con

Yr of Revenue Ops 2013

	Quantity	Total Base Year Dollars (X000)	Cat. 80 Prof. Svc. spread proportionally over Cats. 10 - 50 (X000)	Spread Cat. 90 Unalloc. Cont. according to perceived risks (X000)	Revised Total Base Year Dollars (X000)	Years of Useful Life	Annualization Factor (based on 7% rate) [0.07/1 - (1.07)^- no. yrs]	Annualized Cost (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	1.50	1,522	254	0	1,776			168
10.01 Guideway: At-grade exclusive right-of-way	0.00	0	0	0	0	125	0.0700	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	0.00	0	0	0	0	30	0.0806	0
10.03 Guideway: At-grade in mixed traffic	1.50	1,522	254	0	1,776	20	0.0944	168
10.04 Guideway: Aerial structure	0.00	0	0	0	0	80	0.0703	0
10.05 Guideway: Built-up fill	0.00	0	0	0	0	80	0.0703	0
10.06 Guideway: Underground cut & cover	0.00	0	0	0	0	125	0.0700	0
10.07 Guideway: Underground tunnel	0.00	0	0	0	0	125	0.0700	0
10.08 Guideway: Retained cut or fill	0.00	0	0	0	0	125	0.0700	0
10.09 Track: Direct fixation	0	0	0	0	0	30	0.0806	0
10.10 Track: Embedded	0	0	0	0	0	20	0.0944	0
10.11 Track: Ballasted	0	0	0	0	0	35	0.0772	0
10.12 Track: Special (switches, turnouts)	0	0	0	0	0	30	0.0806	0
10.13 Track: Vibration and noise dampening	0	0	0	0	0	30	0.0806	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	6,729	1,121	0	7,850			554
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	5,429	905	0	6,334	70	0.0706	447
20.02 Aerial station, stop, shelter, mall, terminal, platform	0	0	0	0	0	70	0.0706	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0	0	0	0	0	125	0.0700	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,300	217	0	1,517	70	0.0706	107
20.05 Joint development	0	0	0	0	0	70	0.0706	0
20.06 Automobile parking multi-story structure	0	0	0	0	0	50	0.0725	0
20.07 Elevators, escalators	0	0	0	0	0	30	0.0806	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS		0	0	0	0			0
30.01 Administration Building: Office, sales, storage, revenue counting	0	0	0	0	0	50	0.0725	0
30.02 Light Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.03 Heavy Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.04 Storage or Maintenance of Way Building	0	0	0	0	0	50	0.0725	0
30.05 Yard and Yard Track	0	0	0	0	0	80	0.0703	0
40 SITEWORK & SPECIAL CONDITIONS		3,073	512	0	3,585			290
40.01 Demolition, Clearing, Earthwork	0	0	0	0	0	125	0.0700	0
40.02 Site Utilities, Utility Relocation	1,703	1,703	284	0	1,987	125	0.0700	139
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	0	0	0	0	0	125	0.0700	0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0	0	0	0	0	125	0.0700	0
40.05 Site structures including retaining walls, sound walls	0	0	0	0	0	80	0.0703	0
40.06 Pedestrian / bike access and accommodation, landscaping	0	0	0	0	0	20	0.0944	0
40.07 Automobile, bus, van accessways including roads, parking lots	1,370	1,370	228	0	1,598	20	0.0944	151
40.08 Temporary Facilities and other indirect costs during construction	0	0	0	0	0	100	0.0701	0
50 SYSTEMS		1,140	190	0	1,330			107
50.01 Train control and signals	0	0	0	0	0	30	0.0806	0
50.02 Traffic signals and crossing protection	1,140	1,140	190	0	1,330	30	0.0806	107
50.03 Traction power supply: substations	0	0	0	0	0	50	0.0725	0
50.04 Traction power distribution: catenary and third rail	0	0	0	0	0	30	0.0806	0
50.05 Communications	0	0	0	0	0	20	0.0944	0
50.06 Fare collection system and equipment	0	0	0	0	0	25	0.0858	0
50.07 Central Control	0	0	0	0	0	30	0.0806	0
Construction Subtotal (10 - 50)		12,464	2,077	0	14,541			1,119
60 ROW, LAND, EXISTING IMPROVEMENTS		2,535		0	2,535			177
60.01 Purchase or lease of real estate		2,535			2,535	125	0.0700	177
60.02 Relocation of existing households and businesses		0			0	125	0.0700	0
70 VEHICLES (number)	12	7,100		0	7,100			894
70.01 Light Rail	0	0			0	25	0.0858	0
70.02 Heavy Rail	0	0			0	25	0.0858	0
70.03 Commuter Rail	0	0			0	25	0.0858	0
70.04 Bus	12	6,600			6,600	12	0.1259	831
70.05 Other	0	0			0	12	0.1259	0
70.06 Non-revenue vehicles	0	0			0	12	0.1259	0
70.07 Spare parts	0	500			500	12	0.1259	63
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		2,077						
80.01 Preliminary Engineering		577						
80.02 Final Design		577						
80.03 Project Management for Design and Construction		692						
80.04 Construction Administration & Management		0						
80.05 Professional Liability and other Non-Construction Insurance		231						
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		0						
80.07 Surveys, Testing, Investigation, Inspection		0						
80.08 Start up		0						
Subtotal (10 - 80)		24,176						
90 UNALLOCATED CONTINGENCY		0						
Subtotal (10 - 90)		24,176	2,077	0	24,176			2,191

Major Capital Project Costs - By Segment

(Rev.12, July 31, 2009)

Project	(please insert your project name)	Today's Date
Location	(insert location)	Yr of Base Year Dollars
Number of Route Miles in the Segment		Number of Stations

Segment No. ___ of ___

(attach plan of segment and typical sections through segment, along with cost estimate per typical section)

	Low costs in Base Yr (X\$000) for potential cost savings*	"Most Likely" cost estimate in Base Yr (X\$000)	High costs in Base Yr Dollars (X\$000) for potential cost increases*
10 GUIDEWAY & TRACK ELEMENTS (route miles)	\$ -	\$ -	\$ -
10.01 Guideway: At-grade exclusive right-of-way			
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)			
10.03 Guideway: At-grade in mixed traffic			
10.04 Guideway: Aerial structure			
10.05 Guideway: Built-up fill			
10.06 Guideway: Underground cut & cover			
10.07 Guideway: Underground tunnel			
10.08 Guideway: Retained cut or fill			
10.09 Track: Direct fixation			
10.10 Track: Embedded			
10.11 Track: Ballasted			
10.12 Track: Special (switches, turnouts)			
10.13 Track: Vibration and noise dampening			
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	\$ -	\$ -	\$ -
20.01 At-grade station, stop, shelter, mall, terminal, platform			
20.02 Aerial station, stop, shelter, mall, terminal, platform			
20.03 Underground station, stop, shelter, mall, terminal, platform			
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.			
20.05 Joint development			
20.06 Automobile parking multi-story structure			
20.07 Elevators, escalators			
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	\$ -	\$ -	\$ -
30.01 Administration Building: Office, sales, storage, revenue counting			
30.02 Light Maintenance Facility			
30.03 Heavy Maintenance Facility			
30.04 Storage or Maintenance of Way Building			
30.05 Yard and Yard Track			
40 SITEWORK & SPECIAL CONDITIONS	\$ -	\$ -	\$ -
40.01 Demolition, Clearing, Earthwork			
40.02 Site Utilities, Utility Relocation			
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments			
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks			
40.05 Site structures including retaining walls, sound walls			
40.06 Pedestrian / bike access and accommodation, landscaping			
40.07 Automobile, bus, van accessways including roads, parking lots			
40.08 Temporary Facilities and other indirect costs during construction			
60 ROW, LAND, EXISTING IMPROVEMENTS	\$ -	\$ -	\$ -
60.01 Purchase or lease of real estate			
60.02 Relocation of existing households and businesses			
TOTAL SEGMENT COST	\$ -	\$ -	\$ -

* Describe the risks, uncertainties, and opportunities associated with this segment, that prompted the inclusion of a low or high cost, in addition to a "most likely cost" for particular line items.

Using costs from this column, total *all* segments and insert into Main Worksheet Base Yr Dollars Total (X\$000)

Major Capital Project Costs - Project-wide				(Rev.12, July 31, 2009)
Project	(please insert your project name)		Today's Date	
Location	(insert location)		Yr of Base Year Dollars	
Total Number of Route Miles in Project			Number of Stations	
Project-wide Costs				
			Low costs	in
			Base Yr (X\$000)	"Most Likely" cost
			<i>for potential cost</i>	estimate in Base Yr
			<i>savings*</i>	(X\$000)
				High costs
				in Base Yr Dollars
				(X\$000) for potential
				cost increases*
50 SYSTEMS			\$ -	\$ -
50.01 Train control and signals				
50.02 Traffic signals and crossing protection				
50.03 Traction power supply: substations				
50.04 Traction power distribution: catenary and third rail				
50.05 Communications				
50.06 Fare collection system and equipment				
50.07 Central Control				
70 VEHICLES (number)			\$ -	\$ -
70.01 Light Rail				
70.02 Heavy Rail				
70.03 Commuter Rail				
70.04 Bus				
70.05 Other				
70.06 Non-revenue vehicles				
70.07 Spare parts				
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)			\$ -	\$ -
80.01 Preliminary Engineering				
80.02 Final Design				
80.03 Project Management for Design and Construction				
80.04 Construction Administration & Management				
80.05 Professional Liability and other Non-Construction Insurance				
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.				
80.07 Surveys, Testing, Investigation, Inspection				
80.08 Start up				
90 UNALLOCATED CONTINGENCY				
100 FINANCE CHARGES				
TOTAL PROJECT-WIDE COST			\$ -	\$ -
* Describe the risks, uncertainties, and opportunities associated with this segment, that prompted the inclusion of a low or high cost, in addition to a "most likely cost" for particular line items.			Insert costs from this column into Main Worksheet Base Yr Dollars Total (X\$000)	

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 1 - BCE by Standard Cost Category

<i>Applicable Line Items Only</i>	YOE Dollars Total (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	26,575
10.01 Guideway: At-grade exclusive right-of-way	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	26,575
10.03 Guideway: At-grade in mixed traffic	0
10.04 Guideway: Aerial structure	0
10.05 Guideway: Built-up fill	0
10.06 Guideway: Underground cut & cover	0
10.07 Guideway: Underground tunnel	0
10.08 Guideway: Retained cut or fill	0
10.09 Track: Direct fixation	0
10.10 Track: Embedded	0
10.11 Track: Ballasted	0
10.12 Track: Special (switches, turnouts)	0
10.13 Track: Vibration and noise dampening	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	12,959
20.01 At-grade station, stop, shelter, mall, terminal, platform	11,576
20.02 Aerial station, stop, shelter, mall, terminal, platform	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1,383
20.05 Joint development	0
20.06 Automobile parking multi-story structure	0
20.07 Elevators, escalators	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0
30.01 Administration Building: Office, sales, storage, revenue counting	#DIV/0!
30.02 Light Maintenance Facility	#DIV/0!
30.03 Heavy Maintenance Facility	#DIV/0!
30.04 Storage or Maintenance of Way Building	#DIV/0!
30.05 Yard and Yard Track	#DIV/0!
40 SITEWORK & SPECIAL CONDITIONS	0
40.01 Demolition, Clearing, Earthwork	#DIV/0!
40.02 Site Utilities, Utility Relocation	#DIV/0!
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatment	#DIV/0!
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	#DIV/0!
40.05 Site structures including retaining walls, sound walls	#DIV/0!
40.06 Pedestrian / bike access and accommodation, landscaping	#DIV/0!
40.07 Automobile, bus, van accessways including roads, parking lots	#DIV/0!
40.08 Temporary Facilities and other indirect costs during construction	#DIV/0!
50 SYSTEMS	2,435
50.01 Train control and signals	0
50.02 Traffic signals and crossing protection	2,435
50.03 Traction power supply: substations	0
50.04 Traction power distribution: catenary and third rail	0
50.05 Communications	0
50.06 Fare collection system and equipment	0
50.07 Central Control	0
Construction Subtotal (10 - 50)	41,968
60 ROW, LAND, EXISTING IMPROVEMENTS	27,253
60.01 Purchase or lease of real estate	18,784
60.02 Relocation of existing households and businesses	8,470
70 VEHICLES (number)	5,277
70.01 Light Rail	0
70.02 Heavy Rail	0
70.03 Commuter Rail	0
70.04 Bus	4,738
70.05 Other	0
70.06 Non-revenue vehicles	0
70.07 Spare parts	538
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,399
80.01 Preliminary Engineering	2,611
80.02 Final Design	2,611
80.03 Project Management for Design and Construction	3,133
80.04 Construction Administration & Management	0
80.05 Professional Liability and other Non-Construction Insurance	1,044
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.	0
80.07 Surveys, Testing, Investigation, Inspection	0
80.08 Start up	0
Subtotal (10 - 80)	83,898
90 UNALLOCATED CONTINGENCY	0
Subtotal (10 - 90)	83,898
100 FINANCE CHARGES	0
Total Project Cost (10 - 100)	83,898

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 2 - Inflated Cost to Year of Expenditure

	Base Year Dollars w/o Contingency (X000)	Base Year Dollars Allocated Contingency (X000)	Base Year Dollars TOTAL (X000)	Inflation Factor	YOE Dollars Total (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	19,217	5,765	24,982	1.0638	26,575
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	9,371	2,811	12,182	1.0638	12,959
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	#DIV/0!	0
40 SITEWORK & SPECIAL CONDITIONS	0	0	0	#DIV/0!	0
50 SYSTEMS	1,761	528	2,289	1.0638	2,435
60 ROW, LAND, EXISTING IMPROVEMENTS	19,950	5,985	25,935	1.0508	27,253
70 VEHICLES (number)	4,900	0	4,900	1.0769	5,277
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,054	0	9,054	1.0381	9,399
90 UNALLOCATED CONTINGENCY			0	#DIV/0!	0
100 FINANCE CHARGES			0	#DIV/0!	0
Total Project Cost (10 - 100)			79,342	1.0574	83,898

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 3 - BCE by Source of Funding

	Total Project Cost in YOE Dollars (X000)	Double Check Total (X000)	Federal 5309 Small Starts	Federal Other	Local
10 GUIDEWAY & TRACK ELEMENTS (route miles)	26,575	117,867	50,000	2,867	65,000
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	12,959	39,239	30,000	239	9,000
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	13,080	10,000	80	3,000
40 SITEWORK & SPECIAL CONDITIONS	0	58,858	15,000	18,858	25,000
50 SYSTEMS	2,435	40,525	20,000	5,525	15,000
60 ROW, LAND, EXISTING IMPROVEMENTS	27,253	29,448	10,000	448	19,000
70 VEHICLES (number)	5,277	25,161	10,000	161	15,000
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,399	65,585	50,000	585	15,000
90 UNALLOCATED CONTINGENCY	0	21,799	10,000	799	11,000
100 FINANCE CHARGES	0	3,500	2,000	0	1,500
Total Project Cost (10 - 100)	83,898	415,062	207,000	29,562	178,500

Sources of Federal Funding and Matching Share Ratios				
	Costs Attributed to Source of Funds (X000)	Federal/ Local Matching Ratio within Source	All Federal Funds (X000)	Local Funds (X000)
Federal 5309 New Starts	372,602	50/50	185,568	187,034
Federal Other (pls say what..)	140,000	71/29	100,000	40,000
Total	512,602		285,568	227,034
Overall Federal Share of Project			55.71%	
New Starts Share of Project			246.73%	

Attachment 3A
Project Budget

Project Sponsor Name
Project Name

Scope and Activity Description														
Scope Code	ALI Code	Scope and Activity Line Item Descriptions	Qty		Federal 5309 Small Starts			Federal Other			Project Totals			Total Project Cost in YOE Dollars (X000)
				Total Federal %	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	
14010	140110	GUIDEWAY & TRACK ELEMENTS	4.45	80.12%	759	25,000	25,759	100,000	0	100,000	100,759	25,000	125,759	26,575
14020	140220	STATIONS, STOPS, TERMINALS, INTERMODAL	30	13.44%	10,367	26,781	37,148	0	40,000	40,000	10,367	66,781	77,148	12,959
14030	140330	SUPPORT FACILITIES, YARDS, SHOPS, ADMIN. BLDGS.		50.51%	7,000	6,859	13,859	0	0	0	7,000	6,859	13,859	0
14040	140440	SITWORK & SPECIAL CONDITIONS		57.83%	15,000	10,938	25,938	0	0	0	15,000	10,938	25,938	0
14050	140550	SYSTEMS		53.66%	18,000	15,543	33,543	0	0	0	18,000	15,543	33,543	2,435
14060	140660	ROW, LAND, EXISTING IMPROVEMENTS		42.41%	10,000	13,582	23,582	0	0	0	10,000	13,582	23,582	27,253
14070		VEHICLES	9	39.60%	15,000	22,881	37,881	0	0	0	15,000	22,881	37,881	5,277
	13.13.20	Light Rail Cars	10											
	13.____													
14080	140880	PROFESSIONAL SERVICES		49.89%	45,000	45,200	90,200	0	0	0	45,000	45,200	90,200	9,399
14090	140990	UNALLOCATED CONTINGENCY		18.56%	4,559	20,000	24,559	0	0	0	4,559	20,000	24,559	0
14100	141010	FINANCE CHARGES		50.00%	250	250	500	0	0	0	250	250	500	0
Total Project Cost (10 - 100)				49.88%	125,935	187,034	312,969	100,000	40,000	140,000	225,935	227,034	452,969	83,898

